

## ABSTRACT

1 Method and apparatus for time aligning first and second signals. The second signal is  
2 modulated by the first signal to provide a third signal. Frequency components of the third  
3 signal are then determined, the frequency components being indicative of time alignment  
4 between the first and second signals. The method and apparatus is particularly suitable for  
5 converting a Non-Return-to-Zero data signal to a Return-to-Zero data signal by modulating  
6 the Non-Return-to-Zero data signal with a Return-to-Zero pulse signal. The method and  
7 apparatus provides for the Non-Return-to-Zero data signal and the Return-to-Zero pulse  
8 signal being correctly time aligned in an automated manner without human intervention.